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a plurality of electromagnets disposed substantially between respective outer peripheries of said movable members, each end thereof arranged in a spaced apart relationship from the outer periphery of each said movable member, said respective ends thereof having a mutual magnetic interaction with said movable members;

a supporting mechanism for supporting said rotor along an inner periphery of said plurality of electromagnets so that said rotor is rotatable in a circumferential direction;

a magnetizing mechanism disposed between said movable members so as to magnetize said movable members in opposite polarities; and

3. An electric motor according to claim 1 wherein said magnetizing mechanism comprises a permanent magnet.

4. An electric motor according to claim 1 wherein said magnetizing mechanism comprises an electromagnet which is capable of regulating its magnetic magnitude.

5. An electric motor according to claim 1 wherein every other end of said electromagnet is connected to said magnetic flux control member.

6. An electric motor according to claim 1 wherein each said electromagnet is energized so as to consecutively attract each protrusion arranged at the outer periphery of said output member.

7. An electric motor according to claim 2 wherein each said electromagnet is energized so as to consecutively attract each said elevated portion arranged at the outer periphery of said movable member.

8. An electric motor according to claim 2 wherein said magnetizing mechanism comprises a permanent magnet.

9. An electric motor according to claim 2 wherein said magnetizing mechanism comprises an electromagnet which is capable of regulating its magnetic magnitude.